PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY					_ PCT				
PFIZER RESEARCH AND DEVELOPMENT Attn. Wood, David J. Ramsgate Road Sandwich Kent CT13 9NJ UNITED KINGDOM PFIZER RESEARCH AND DEVELOPMENT EUROPEAN PHARMA PATENT DEPARTMENT 1 6 MAY 2005			NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION						
_		2005				(PCT	Rule 44.1)	•	
i					Date of mailing (day/month/yea		2005		
Applicant's or agent's file re	ference								
PC25833A			•••••••		FOR FURTH	ER ACTION S	ee paragraphs 1 a	nd 4 below	
International application No					International fill (day/month/yea	hal			
PCT/IB2005/00022	1			_	(day/monubyea	<u>" 26/01,</u>	(2005		
Applicant		2)	101	C	os //		Ì		
PFIZER PRODUCTS	INC.	2	12	C	3 1	· W _ [TLING		
1 The applicant is he	eraby notified that the int	arn atio	nol se	rot	h report and the w	ritten onlyion of the	DEBITNOLE	ing	
1. X The applicant is hereby notified that the International search report and the written opinion of the Authority have been established and are transmitted herewith.							RENEWALS		
Filing of amendr	nents and statement ur ntitled, if he so wishes, to	nder A	rticle 19	9: lair	ns of the internati	onal Application (se	REMEAS PABLE		
When? The tir	me limit for filing such an	nendm	ents is	nor	rmally 2 months fr	om the date of trans	mittal of the	<u></u>	
Unterna Where? Directly (ational Search Report; h				o detalls, see the r 4 chemin des Cok	·	anying sheet.	}	
	1211 Geneva 2	0, Swit	zerland	, F	ascimile No.: (41-	-22) 740.14.35			
For more detailed	d instructions, see the	notes d	on the a	.000	ompanying sheet.				
Article 17(2)(a) to	ereby notified that no in that effect and the writte	n opini	ion of th	e I	nternational Sear	ching Authority are t	ransmitted herewith		
3. With regard to th	ne protest against paym	entor	(an) ao	alti	onai tee(s) under	Hule 40.2, the applic	cant is notined that:		
applicants re	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.							e	
4. Reminders								1	
Shortly after the expiration of 18 months from the priority date, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the international Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.									
The applicant may submit comments on an informal basis on the written opinion of the international Searching Authority to the international Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.									
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.							oriority		
	gnated Offices, the time		•			pply even if no dema	and is filed within 19		
	PCT/iB/301 and, for de anal Chapters and the W					s, Office by Office, s	ee the PCT Applica	nts	
Name and mailing address	of the International Con	robino	Author	h/	Authodred off	~~			
Name and mailing address of the international Searching Authority European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer Josef Ullrich									

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required, in all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying latter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims;
 Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added or
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not reptace the latter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		FOR FURTHER		see Form PCT/ISA/220					
PC25833A		ACTION		as, where applicable, Item 5 below.					
International app	olication No.	International filing date (day/month	lyear)	(Earliest) Priority Date (day/month/year)					
PCT/IB200	5/000221	26/01/2005		02/02/2004					
Applicant									
PFIZER PRO	DDUCTS INC.								
		n prepared by this international Seam unsmitted to the international Bureau		nority and is transmitted to the applicant					
This internation	nal Search Report consists	of a total of she	ets.						
It is also accompanied by a copy of each prior art document cited in this report.									
	egard to the language, the	international search was carried out ess otherwise indicated under this ite		sis of the international application in the					
	The International this Authority (Ru		of a transi	ation of the international application furnished to					
b. 🔲	With regard to any nucleo	otide and/or amino acid sequence	disclosed	In the international application, see Box No. I.					
2.	Certain claims were fou	nd unsearchable (See Box II).							
з. 🔲	Unity of Invention is lacking (see Box III).								
4. With rega	rd to the title ,								
X	the text is approved as su	ibmitted by the applicant.							
	the text has been established by this Authority to read as follows:								
5. With rega	rd to the abstract,								
X	the text is approved as so	ibmitted by the applicant.							
				ity as it appears in Box No. IV. The applicant report, submit comments to this Authority.					
6. With rega	rd to the drawings ,								
a. the fig	gure of the drawings to be	published with the abstract is Figure	No						
	as suggested by	the applicant.							
	=	is Authority, because the applicant fa							
्रास्त		is Authority, because this figure betti	er charact	erizes the invention.					
b. <u>X</u>	none of the figures is to t	e published with the abstract.							

international Application No PCT/IB2005/000221

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D453/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\frac{7}{100}$ C070

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data

C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT		
Category "	Citation of document, with Indication, where appropriate, of	the relevant passages	Relevant to claim No.
A	WO 97/03984 A (PFIZER INC; TI L; MELTZ, MORGAN) 6 February 1997 (1997-02-06) page 8, line 5; claims 1,6 page 8 - page 9	CKNER, DEREK,	1-10
A	US 6 222 038 B1 (ITO FUMITAKA 24 Apr11 2001 (2001-04-24) cited in the application column 5, line 6 - column 6, example 1 column 7, last paragraph		1-10
X Furt	her documents are listed in the continuation of box C.	Patent family members ar	re listed in annex.
"A" docum consid "E" earlier filing of "L" docum which clatio "O" docum other "P" docum	ategories of cited documents: ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the International tate ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but than the priority date claimed	 'Y' document of particular relevant cannot be considered to invo- document is combined with or 	offici with the application but ple or theory underlying the circ; the claimed invention or cannot be considered to the the document is taken alone ice; the claimed invention live an inventive step when the or more other such docung obvious to a person skilled
Date of the	actual completion of the international search	Date of mailing of the internati	onal search report
4	May 2005	17/05/2005	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk ' Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Härtinger, S	

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International Application No
PCT/IB2005/000221

(Continue	RION) DOCUMENTS CONSIDERED TO BE RELEVANT	
alegory •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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P,A	WO 2004/035575 A (PFIZER PRODOUCTS, INC; DSM PHARMACEUTICALS, INC; NUGENT, THOMAS, C; SE) 29 April 2004 (2004-04-29) cited in the application page 3, last paragraph; examples page 3, line 1 - line 4	1-10

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Information on patent family members

International Application No
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information on patent family members

International Application No
PCT/IB2005/000221

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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) 02.02.2004 PCT/B2005/000221 26.01.2005 International Patent Classification (IPC) or both national classification and IPC C07D453/02 Applicant PFIZER PRODUCTS INC. This opinion contains indications relating to the following items: Box No. 1 Basis of the opinion ☐ Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. **Authorized Officer** Name and mailing address of the ISA:

European Patent Office D-80298 Munich

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Härtinger, S

Telephone No. +49 89 2399-8289



\$107708086

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/000221

		ીં હો હાલ હાલની કે પ્ર
	ox N	o. I Basis of the opinion
		egard to the language , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
C	la	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).
		egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
а	. type	of material:
		a sequence listing
		table(s) related to the sequence listing
b	. forn	nat of material:
		in written format
		in computer readable form
c	. time	of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3. [h: Co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.
4. /	Additio	onal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/000221

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-10

No: Claims

Inventive step (IS)

Yes: Claims

1-10

No: Claims

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

 Certain published documents (Rules 43bis.1 and 70.10) and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

'AP20 Rec'd PUT/FTO 01 AUG 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2005/000221

Re Item V:

1. The application relates to a process for preparing camphersulfonic acid (CSA) salt of 1-(2S,3S)-2-Benzhydryl-N-(5-ter-butyl-2-methoxybenzyl)quinuclidin-3-amine having the formula lb. The process makes use of intermediates in the CSA salt form, of which the preferred intermediate Via is likewise claimed.

The relevant prior art is represented by the following documents.

- D1: WO 97/03984 A (PFIZER INC; TICKNER, DEREK, L; MELTZ, MORGAN) 6 February 1997 (1997-02-06)
- D2: US-B1-6 222 038 (ITO FUMITAKA ET AL) 24 April 2001 (2001-04-24)
- D3: WARAWA E J ET AL: "Quinuclidine chemistry. 4. Diuretic properties of cis-3-amino-2-benzhydrylquinuclidine." JOURNAL OF MEDICINAL CHEMISTRY. JUN 1975, vol. 18, no. 6, June 1975 (1975-06), pages 587-593, XP002327149 ISSN: 0022-2623
- D4: US-B1-6 255 320 (QUALLICH GEORGE JOSEPH ET AL) 3 July 2001 (2001-07-03)

The cited prior art makes use of CSA in catalytic amounts to achieve the amination of 3-ketoquinuclidine. CSA has also been used for the resolution of racemic end-products. While enatiomerically pure cis-intermediates of the type presently used are known in the art, none of the cited documents discloses CSA quinuclidine salts, which were pulled through a multi-step synthesis procedure. By consequence, the claimed processes and intermediate (VIa) appear to be novel in the sense of Art. 33(2) PCT.

The most pertinent prior art is represented by D1, D2 and D3. D1 teaches the use of CSA for the resolution of racemic 2-Benzhydryl-N-(5-iso-propyl-2-methoxybenzyl)quinuclidin-3-amine. The said resolution step only occurs at the end of the multi-step procedure and does not involve the transformation of CSA intermediates. While the use of enatiomeric intermediates, such as 2-Benzhydryl-N-benzyl)quinuclidin-3-amine and 2-Benzhydryl-quinuclidin-3-amine, are suggested for the production of 2S,3S-cis end products (eg. page 8 of D1), the use of intermediates in salt form is not taught. Similarly, the documents D2 and D3 teach, that

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enatiomerically pure cis-intermediates may be pulled through analogous multi-step procedures, whereby the enantiomers have been obtained by chromatography or by formation with chiral acids at the final synthesis step. The skilled person, who was looking to find an alternative process for the synthesis of known product (I), was therefore left without guidance, when solving the problem by the use of the present CSA quinuclidine intermediates (VIa) and (VII). The claimed processes and the intermediates, which are essential for proposed solution, are therefore considered to be the result of not obvious modifications of the prior art. The claimed subject-matter appears therefore to meet the requirement of Art. 33(3) PCT.

Re Item VI:

1. The international patent application D5 (= WO 2004/035575 A, PFIZER PRODOUCTS, INC; DSM PHARMACEUTICALS, INC; NUGENT, THOMAS, C; SE, 2004-04-29) has been published between the priority and filing date of the present application. The free amino intermediates and the CSA salt of final products disclosed therein do therefore not form part of the state of the art as defined in the PCT. By consequence, D5 has been disregarded from further considerations.

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